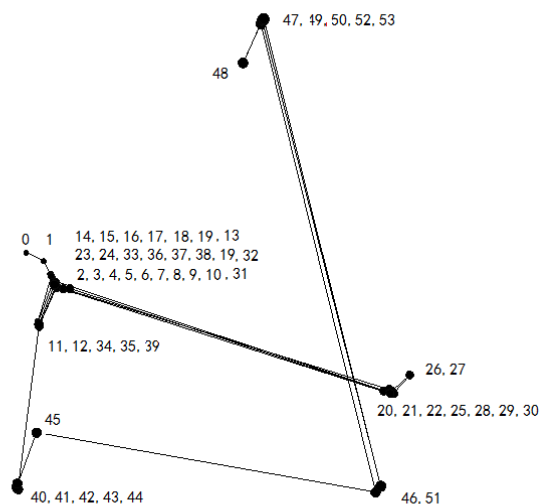
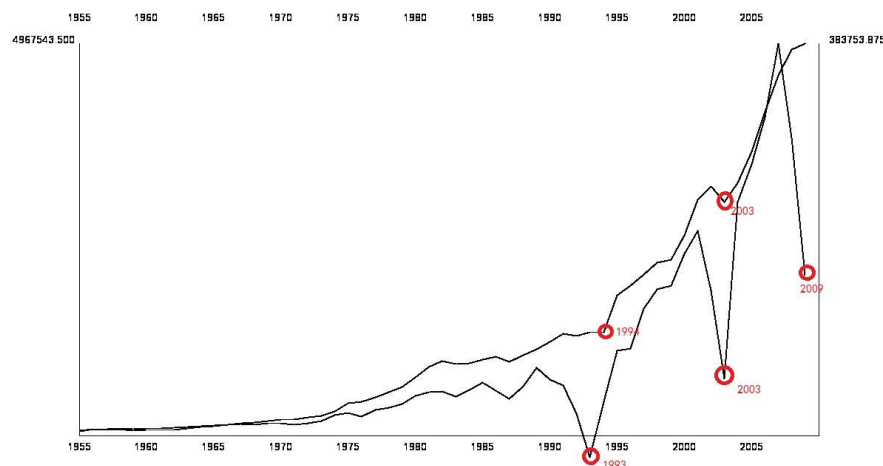


# Weekly Report

## Research

1. Last week I wrote a proposal of the TopK project, listing all the possible research issues. Done dividing labor.
2. I also dig into the fortune 500 dataset a little bit more. As it's shown below, the upper line is revenue and the lower is profit, which sometimes goes below zero. A great outlier can be found in 1993 (38<sup>th</sup> point in MDS plot), the great depression year of America, also the world. Since the analytical process would be from topk → company → industry/products, I would like to know how all these factors can be used to analyze the development of a company or economy.
3. I think MDS timeline is too simple a visual encoding method to visualize the topk dataset...



4. With Guo Fangzhou's help, key words of industries and products of the companies on the rank list were fetched. No work has been done with the data yet because I just got the code on Sunday.

## Reading

I read Ma's storyline paper and gave a presentation in the group meeting.

## Miscellaneous

The introduction PPT of the information visualization courseware is made, including assignments, grading policy and contact information. Now I'm working on the chapter of perception and cognition.

## Work to do

1. Ma Yuxin told me a new ML area called distance metric learning, rank distance metric learning is included. Have to take a look at it.
2. **New visual encoding of TopK similarity**
3. Integrate key words to the layout
4. Courseware PPT and information visualization textbook